SEQUENCE LISTING

<110> NONO, INC.

<120> ND2 PEPTIDES AND METHODS OF TREATING NEUROLOGICAL DISEASE

<130> 057769-410646

<140> PCT/US2011/053764
<141> 2011-09-28

<150> 61/387,439
<151> 2010-09-28

<160> 62

<170> PatentIn version 3.5

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<213> Human immunodeficiency virus

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<210> 2
<211> 11
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1 5 10

<210> 3
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<213> Human immunodeficiency virus

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<210> 4
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Lys Pro Ala Ser Ala Asp Gly His Arg Gly
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<210> 6
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<213> Homo sapiens

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<210> 7
<211> 19
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<213> Homo sapiens

<400> 7
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1 5 10 15

Pro Ala Ala

<210> 8
<211> 19
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<213> Homo sapiens

<400> 8
Ala Gly Ser His Ala Pro Phe Pro Ser Pro Ala Arg Ala Gly Val Ala
1 5 10 15

Pro Asp Ala

<210> 9
<211> 21
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

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Lys Pro Ala Ser Ala Asp Gly His Arg Gly Tyr Gly Arg Lys Lys Arg
1 5 10 15

Arg Gln Arg Arg Arg
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<210> 10
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
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Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Lys Pro Ala Ser Ala
1 5 10 15

Asp Gly His Arg Gly
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<210> 11
<211> 21
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Arg Gln Arg Arg Arg
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Gly Ala Phe Pro Ala Ser Gln Thr Pro Ser
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<210> 13
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Gly Ala Phe Pro Ala Ser Gln Thr Pro Ser Lys Pro Ala Ser Ala Asp
1 5 10 15

Gly His Arg Gly
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<210> 14
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<400> 14
Ser Gln Thr Pro Ser Lys Pro Ala Ser Ala Asp Gly His Arg Gly
1 5 10 15

<210> 15
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<213> Homo sapiens

<400> 15
Pro Ala Ser Ala Asp Gly His Arg Gly Pro Ser Ala Ala Phe
1 5 10

<210> 16
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<400> 16
Asn Leu Tyr Phe Tyr Leu Arg Leu Ile Tyr Ser Thr Ser Ile Thr Leu
1 5 10 15

Leu Pro Met Ser Asn Asn Val Lys Met Lys Trp Gln Phe Glu His Thr
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Lys

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<400> 17
Asn Leu Tyr Phe Tyr Leu Arg Leu Ile Tyr Ser Thr Ser Ile Thr Leu
1 5 10 15

Leu Pro Met Ser Asn
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<210> 18
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Tyr Phe Tyr Leu Arg Leu Ile Tyr Ser Thr Ser Ile Thr
1 5 10

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<220>
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Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Tyr Phe Tyr Leu Arg
1 5 10 15

Leu Ile Tyr Ser Thr Ser Ile Thr
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<210> 20
<211> 20
<212> PRT
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<400> 20
Ser Thr Ser Ile Thr Leu Leu Pro Met Ser Asn Asn Val Lys Met Lys
1 5 10 15

Trp Gln Phe Glu
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<210> 21
<211> 20
<212> PRT
<213> Homo sapiens

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Ile Thr Leu Leu Pro Met Ser Asn Asn Val Lys Met Lys Trp Gln Phe
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Glu His Thr Lys
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<210> 22
<211> 15
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Met Ser Asn Asn Val Lys Met Lys Trp Gln Phe Glu His Thr Lys
1 5 10 15

<210> 23
<211> 12
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Asn Val Lys Met Lys Trp Gln Phe Glu His Thr Lys
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<210> 24
<211> 12
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Lys Trp Val Gln His Thr Lys Phe Glu Met Lys Asn
1 5 10

<210> 25
<211> 8
<212> PRT
<213> Homo sapiens

<400> 25
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<210> 26
<211> 23
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<400> 26
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Trp Gln Phe Glu His Thr Lys
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<210> 27
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1 5 10 15

Thr Lys Phe Glu Met Lys Asn
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<210> 28
<211> 12
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<400> 28
Met Ser Asn Asn Val Lys Met Lys Trp Gln Phe Glu
1 5 10

<210> 29
<211> 9
<212> PRT
<213> Homo sapiens

<400> 29
Asn Val Lys Met Lys Trp Gln Phe Glu
1 5

<210> 30
<211> 7
<212> PRT
<213> Homo sapiens

<400> 30
Asn Val Lys Met Lys Trp Gln
1 5

<210> 31
<211> 5
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<213> Homo sapiens

<400> 31
Asn Val Lys Met Lys
1 5

<210> 32
<211> 12
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<400> 32
Asn Val Lys Met Lys Trp Gln Phe Glu His Thr Lys
1 5 10

<210> 33
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 33
Met Ser Asn Asn Val Lys Met Lys Trp Gln Phe Glu His Thr Lys
1 5 10 15

<210> 34
<211> 11
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Xaa Gly Lys Lys Lys Lys Lys Gln Lys Lys Lys
1 5 10

<210> 35
<211> 10
<212> PRT
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<220>
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<220>
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<400> 35
Xaa Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10

<210> 36
<211> 11
<212> PRT
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<223> Any amino acid or not present

<400> 36
Xaa Gly Ala Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10

<210> 37
<211> 10
<212> PRT
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<400> 37
Xaa Ala Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10

<210> 38
<211> 11
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<400> 38
Xaa Gly Arg Lys Ala Arg Arg Gln Arg Arg Arg
1 5 10

<210> 39
<211> 10
<212> PRT
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<220>
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<400> 39
Xaa Arg Lys Ala Arg Arg Gln Arg Arg Arg
1 5 10

<210> 40
<211> 11
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<400> 40
Xaa Gly Arg Lys Lys Ala Arg Gln Arg Arg Arg
1 5 10

<210> 41
<211> 10
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<400> 41
Xaa Arg Lys Lys Ala Arg Gln Arg Arg Arg
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<210> 42
<211> 11
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<400> 42

Xaa Gly Arg Lys Lys Arg Arg Gln Ala Arg Arg
1 5 10

<210> 43
<211> 10
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<220>
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<222> (1)..(1)
<223> Any amino acid or not present

<400> 43
Xaa Arg Lys Lys Arg Arg Gln Ala Arg Arg
1 5 10

<210> 44
<211> 5
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<400> 44
Gly Ser Ser Ser Ser
1 5

<210> 45
<211> 5
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<213> Artificial Sequence

<220>
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<400> 45
Thr Gly Glu Lys Pro
1 5

<210> 46
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<220>
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<400> 46
Gly Gly Arg Arg Gly Gly Gly Ser
1 5

<210> 47
<211> 9

<212> PRT
<213> Artificial Sequence

<220>
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<400> 47
Leu Arg Gln Arg Asp Gly Glu Arg Pro
1 5

<210> 48
<211> 13
<212> PRT
<213> Human immunodeficiency virus

<400> 48
Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Gln
1 5 10

<210> 49
<211> 11
<212> PRT
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<220>
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<400> 49
Xaa Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10

<210> 50
<211> 11
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<400> 50
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<210> 51
<211> 10
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<400> 51
Xaa Arg Lys Lys Arg Arg Gln Arg Ala Arg
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<210> 52
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<400> 52
Xaa Arg Arg Pro Arg Arg Pro Arg Arg Pro Arg Arg
1 5 10

<210> 53
<211> 12
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<400> 53
Xaa Arg Arg Ala Arg Arg Ala Arg Arg Ala Arg Arg
1 5 10

<210> 54
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<400> 54
Xaa Arg Arg Arg Ala Arg Arg Arg Ala Arg Arg
1 5 10

<210> 55
<211> 11
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<223> Any amino acid or not present

<400> 55
Xaa Arg Arg Arg Pro Arg Arg Arg Pro Arg Arg
1 5 10

<210> 56
<211> 9
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<400> 56
Xaa Arg Arg Pro Arg Arg Pro Arg Arg
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<400> 57
Xaa Arg Arg Ala Arg Arg Ala Arg Arg
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<210> 58
<211> 11

<212> PRT
<213> Human immunodeficiency virus

<400> 58
Arg Arg Arg Gln Arg Arg Lys Lys Arg Gly Tyr
1 5 10

<210> 59
<211> 11
<212> PRT
<213> Human immunodeficiency virus

<400> 59
Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro
1 5 10

<210> 60
<211> 347
<212> PRT
<213> Homo sapiens

<400> 60
Met Asn Pro Leu Ala Gln Pro Val Ile Tyr Ser Thr Ile Phe Ala Gly
1 5 10 15

Thr Leu Ile Thr Ala Leu Ser Ser His Trp Phe Phe Thr Trp Val Gly
20 25 30

Leu Glu Met Asn Met Leu Ala Phe Ile Pro Val Leu Thr Lys Lys Met
35 40 45

Asn Pro Arg Ser Thr Glu Ala Ala Ile Lys Tyr Phe Leu Thr Gln Ala
50 55 60

Thr Ala Ser Met Ile Leu Leu Met Ala Ile Leu Phe Asn Asn Met Leu
65 70 75 80

Ser Gly Gln Trp Thr Met Thr Asn Thr Thr Asn Gln Tyr Ser Ser Leu
85 90 95

Met Ile Met Met Ala Met Ala Met Lys Leu Gly Met Ala Pro Phe His
100 105 110

Phe Trp Val Pro Glu Val Thr Gln Gly Thr Pro Leu Thr Ser Gly Leu
115 120 125

Leu Leu Leu Thr Trp Gln Lys Leu Ala Pro Ile Ser Ile Met Tyr Gln
130 135 140

Ile Ser Pro Ser Leu Asn Val Ser Leu Leu Leu Thr Leu Ser Ile Leu
145 150 155 160

Ser Ile Met Ala Gly Ser Trp Gly Gly Leu Asn Gln Thr Gln Leu Arg
165 170 175

Lys Ile Leu Ala Tyr Ser Ser Ile Thr His Met Gly Trp Met Met Ala
180 185 190

Val Leu Pro Tyr Asn Pro Asn Met Thr Ile Leu Asn Leu Thr Ile Tyr
195 200 205

Ile Ile Leu Thr Thr Thr Ala Phe Leu Leu Leu Asn Leu Asn Ser Ser
210 215 220

Thr Thr Thr Leu Leu Leu Ser Arg Thr Trp Asn Lys Leu Thr Trp Leu
225 230 235 240

Thr Pro Leu Ile Pro Ser Thr Leu Leu Ser Leu Gly Gly Leu Pro Pro
245 250 255

Leu Thr Gly Phe Leu Pro Lys Trp Ala Ile Ile Glu Glu Phe Thr Lys
260 265 270

Asn Asn Ser Leu Ile Ile Pro Thr Ile Met Ala Thr Ile Thr Leu Leu
275 280 285

Asn Leu Tyr Phe Tyr Leu Arg Leu Ile Tyr Ser Thr Ser Ile Thr Leu
290 295 300

Leu Pro Met Ser Asn Asn Val Lys Met Lys Trp Gln Phe Glu His Thr
305 310 315 320

Lys Pro Thr Pro Phe Leu Pro Thr Leu Ile Ala Leu Thr Thr Leu Leu
325 330 335

Leu Pro Ile Ser Pro Phe Met Leu Met Ile Leu
340 345

<210> 61
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<400> 61
Xaa Phe Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10

<210> 62
<211> 20
<212> PRT
<213> Human immunodeficiency virus

<400> 62
Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Lys Leu Ser Ser Ile
1 5 10 15

Glu Ser Asp Val
20